

AMENDMENTS TO THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Original) A method for maximizing the throughput of Transmission Control Protocol/Internet Protocol ("TCP/IP") data comprising the steps of:

estimating delay and rate variances associated with at least one wireless link;

modifying a receive window value of an acknowledgment packet; and
transmitting a modified acknowledgment packet containing the modified receive window value to a source of TCP/IP data.

2. (Original) The method as in claim 1 further comprising the steps of:
receiving the modified acknowledgement packet;
comparing the receive window value within the modified acknowledgement packet to a congestion window value;

selecting the lesser of the receive window value and congestion window value; and

transmitting an amount of data toward the wireless link based on the selected value.

3. (Original) The method as in claim 1 wherein the receive window value comprises a number of packets.

4. (Original) The method as in claim 3 wherein the number of packets is substantially within the range of 1 kilobyte to 64 kilobytes.

5. (Currently Amended) The method as in claim 1 further comprising
~~A method for maximizing the throughput of TCP/IP data comprising the steps~~
of:

determining whether a data buffer is substantially close to empty;
determining whether the delay and rate variances have substantially
changed; and

storing one or more ACKs when said buffer is not substantially close to
empty or when said variances have not substantially changed.

6. (Currently Amended) The method as in claim 5 further comprising
modifying the [[a]] receive window value of an ACK packet when said
buffer is substantially close to empty or when said variances have substantially
changed; and

transmitting the [[a]] modified ACK packet containing the modified
receive window value to a source of TCP/IP data when said buffer is
substantially close to empty or when said variances have substantially
changed.

7. (Original) A system for maximizing the throughput of Transmission Control Protocol/Internet Protocol ("TCP/IP") data comprising a radio network controller (RNC) operable to:

estimate delay and rate variances associated with at least one wireless link;

modify a receive window value of an acknowledgment packet; and

transmit a modified acknowledgment packet containing the modified receive window value to a source of TCP/IP data.

8. (Original) The system as in claim 7 further comprising a data source operable to:

receive the modified acknowledgement packet;

compare the receive window value within the modified acknowledgement packet to a congestion window value;

select the lesser of the receive window value and congestion window value; and

transmit an amount of data toward the wireless link based on the selected value.

9. (Original) The system as in claim 7 wherein the receive window value comprises a number of packets.

10. (Original) The system as in claim 9 wherein the number of packets is substantially within the range of 1 kilobyte to 64 kilobytes.

11. (Currently Amended) The system as in claim 7 further ~~A device for maximizing the throughput of TCP/IP data~~ operable to:

determine whether a data buffer is substantially close to empty;

determine whether the delay and rate variances have substantially changed; and

store one or more ACKs when said buffer is not substantially close to empty or when said variances have not substantially changed.

12. (Currently Amended) The system ~~[[device]]~~ as in claim 11 further operable to:

modify the ~~[[a]]~~ receive window value of an ACK packet when said buffer is substantially close to empty or when said variances have substantially changed; and

transmit the ~~[[a]]~~ modified ACK packet containing the modified receive window value to a source of TCP/IP data when said buffer is substantially close to empty or when said variances have substantially changed.